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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,706	11/24/2003	Manabu Sawasaki	1324.66570	5369
7590 06/26/2007 Patrick G. Burns, Esq. GREER, BURNS & CRAIN, LTD. Suite 2500 300 South Wacker Drive			EXAMINER	
			NGUYEN, DUNG T	
			ART UNIT	PAPER NUMBER
Chicago, IL 60606			2871	
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			MAIL DATE	DELIVERY MODE
			06/26/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

· · · · ·	Application No.	Applicant(s)
	10/720,706	MANABU SAWASAKI
Office Action Summary	Examiner	Art Unit
	Dung Nguyen	2871
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with	the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 36(a). In no event, however, may a reply will apply and will expire SIX (6) MONTHS e, cause the application to become ABAN	TION.  be timely filed  from the mailing date of this communication.  DONED (35 U.S.C. § 133).
Status		
<ol> <li>Responsive to communication(s) filed on 16 A</li> <li>This action is FINAL.</li> <li>Since this application is in condition for alloward closed in accordance with the practice under the second secon</li></ol>	s action is non-final. nce except for formal matters	
Disposition of Claims		
4)  Claim(s) 23,25-28 and 31-35 is/are pending in 4a) Of the above claim(s) is/are withdra 5)  Claim(s) is/are allowed.  6)  Claim(s) 23,25-28 and 31-35 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/o  Application Papers  9)  The specification is objected to by the Examine 10)  The drawing(s) filed on is/are: a)  accompany and applicant may not request that any objection to the	wn from consideration.  or election requirement.  er. eepted or b) □ objected to by drawing(s) be held in abeyance	. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E		· • • • • • • • • • • • • • • • • • • •
Priority under 35 U.S.C. § 119	Naminor. Note the attached of	
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	ts have been received. ts have been received in App prity documents have been re u (PCT Rule 17.2(a)).	lication No ceived in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 4/2/07;4/12/07.	Paper No(s)/N	nmary (PTO-413) Mail Date rmal Patent Application

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## **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/16/2007 has been entered.
- 2. Applicant's amendment dated 04/16/2007 has been received and entered. By the amendment, claims 23, 25-28, 31-38 and newly added claim 39 are now pending in the application.

# Claim Rejections - 35 USC § 102

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 23, 28, 31-32, 34 and 39 are rejected under 35 U.S.C. 102(e) as being anticipated by Kurauchi et al., US Patent No. 6,323,921.

The above claims are anticipated by Kurauchi et al. figures 2, 4A and 5C which disclose a liquid crystal display (LCD) device (figures 2, 4A, 5C) comprising:

- and a pixel electrode (28) (see figure 5C);
- . a common electrode substrate having a second substrate (2) having a common electrode (not shown);

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. a liquid crystal layer (between two substrates);

a columnar spacer (9c), wherein the columnar spacer includes the resin color filter (e.g., 6c, 7c having a same width and 8d) that contacts to the liquid crystal layer (see figure 5C).

## Claim Rejections - 35 USC § 103

- 5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 6. Claims 25 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kurauchi et al., US Patent No. 6,323,921, in view of Kadota et al., US Patent 5,818,550.

Regarding the above claims, Kurauchi disclose the claimed invention as described above except for the thickness of the second substrate. Kadota et al. do disclose the second substrate (12) can be thinner than the first substrate (0). Therefore, it would have been obvious to one skilled in the art at the time of the invention was made to form an upper surface (display side) thin and light in order to reduce side and birefringence on an LCD display side.

7. Claims 26-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kurauchi et al., US Patent No. 6,323,921, in view of Kurematsu et al., US Patent No. 5,764,318.

Regarding the above claims, Kurauchi disclose the claimed invention as described above except for the common substrate being of alkaline glass. Kurematsu et al. disclose an alkaline glass can be formed in an LCD device (col. 2, ln 64-67 and col. 3, ln 1-3). Therefore, it would have been obvious to one skilled in the art at the time of the invention was made to employ an alkaline substrate as shown by Kurematsu et al. for cost efficiency (Id.).

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### Response to Arguments

8. Applicant's arguments filed 04/16/2007 have been fully considered but they are not persuasive.

Applicant's only argument is that Kurauchi fails to disclose or suggest a columnar spacer formed with laminated resin layer that includes a resin color filter layer and contacts with a liquid crystal layer. The Examiner is not convinced by this argument since the same is true of the Kurauchi et al. columnar spacer as clearly shown in the Kurauchi et al. figure 5C, wherein the color layers (6c, 7c and 8d) can be served as the component of a spacer portion (9c) as claimed.

Accordingly, the rejection of the above claims stand.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung Nguyen whose telephone number is 571-272-2297. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DN 06/25/2007 /Dung Nguyen/
Dung Nguyen
Primary Examiner
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